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AUTH. NAME AUTHOR AFFILIATION
 CONWAY, W.F. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

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SUBJECT: Responds to NRC Bulletin 88-008, "Thermal Stresses in Piping Connected to RCS."

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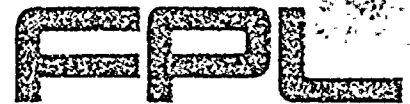
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OCTOBER 14 1988

L-88-436

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
NRC Bulletin 88-08
Thermal Stresses in Piping Connected to Reactor Coolant Systems

By the subject Bulletin, the NRC staff requested Licensees to 1) review their reactor coolant systems to identify any connected, unisolable piping that could be subjected to temperature distributions which would result in unacceptable thermal stress, 2) conduct nondestructive testing of the identified piping, and 3) take action to provide continuing assurance that the piping will not be subjected to unacceptable thermal stresses.

Attached is a response to items 1 & 2 and a schedule for response to item 3. A supplemental report providing the details and implementation schedule of the actions required under item 3 will be provided December 30, 1988.

Florida Power & Light Company requested a two week extension for the submittal of this response. This request was granted by a member of your Region II Staff.

Very truly yours,

W. F. Conway

W. F. Conway
Senior Vice President - Nuclear

WFC/SDF/gp

Attachment

cc: Malcolm L. Ernst, Acting Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

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STATE OF FLORIDA)
) ss.
COUNTY OF PALM BEACH)

D. A. Sager being first duly sworn, deposes and says:

That he is Acting Vice President, Nuclear Energy of Florida Power & Light Company, the Licensee herein;

That he has executed the foregoing document; that the statements made in this document are true and correct to the best of his knowledge, information, and belief, and that he is authorized to execute the document on behalf of said Licensee.

DA Sager
D. A. Sager

Subscribed and sworn to before me this
13 day of October, 1988.

Robert S Economy
NOTARY PUBLIC, in and for the County
of Palm Beach, State of Florida

My Commission expires: Notary Public, State of Florida
My Commission Expires June 1, 1989
Bonded thru Troy Fain - Insurance, Inc.

ATTACHMENT

ACTION 1

Review systems connected to the RCS to determine whether unisolable sections of piping connected to the RCS can be subjected to stresses from temperature stratification or temperature oscillations that could be induced by leaking valves and that were not evaluated in the design basis.

RESPONSE

FPL reviewed the system piping which was connected to or a part of the Reactor Coolant System (RCS) that could be susceptible to stresses from temperature stratifications or temperature oscillations induced from leaking valves. The following six flowpaths were examined in further detail:

- Charging pumps to the pressurizer auxiliary spray
- Charging pumps to C Hot Leg
- Safety Injection pumps to the RCS
- Accumulators to the RCS
- Charging pumps to Loop A Cold Leg
- Residual Heat Removal pumps to the RCS

The flowpaths from the charging pumps to the pressurizer auxiliary spray and the charging pumps to C Hot Leg were identified as being potentially susceptible to the concerns raised in this bulletin.

ACTION 2

For any unisolable sections of piping connected to the RCS that may have been subjected to excessive thermal stresses, examine nondestructively the welds, heat-affected zones and high stress locations, including geometric discontinuities, in the piping to provide assurance that there are no existing flaws.

RESPONSE

For the two potentially susceptible flowpaths identified in Action 1 the piping locations most susceptible to fatigue and the points of maximum potential Delta T were identified for nondestructive evaluation. The components of maximum anticipated fatigue loading in these flowpaths were also identified for base metal evaluation. These inspections will be performed during the current Unit 4 refueling outage and upcoming 1989 Unit 3 refueling outage. The results of these inspections will be provided in supplemental reports issued 30 days from restart following these outages.

ACTION 3

Plan and implement a program to provide continuing assurance that unisolable sections of all piping connected to the RCS will not be subjected to combined cyclic and static thermal and other stresses that could cause fatigue failure during the remaining life of the unit.

RESPONSE

The methods available to provide continuing assurance that unisolable sections of piping will not be subject to combined cyclic and static thermal and other stresses that could cause fatigue failure are currently under review. The development of the plan and the schedule for its implementation will be completed by December 2, 1988. A supplemental report explaining the plan and the schedule for its implementation will be issued by December 30, 1988.